

Industrial Grade Silicone Sealant

DESCRIPTION

AFTEK® Industrial Grade is a one part medium modulus non slump adhesive silicone sealant.

For use on: air-conditioning units, duct work, roofing and sheet metal work, manufacturing of window frames & glass weather-seal, OEM and white goods manufacturing, plant & factory maintenance.

ADVANTAGES / FEATURES

- Premium Grade
- Excellent UV Stability
- Low VOC
- Extremely flexible
- Adhesive / Sealant
- Neutral Cure
- Non-slumping: can be used in vertical and overhead joints.
- Excellent resistance to weathering, ultra-violet radiation, vibration, moisture, ozone, temperature extremes, airborne pollutants, some cleaning agents and solvents.



- 610330 – Translucent - 300gm
- 610345 – Grey. - 400gm
- 610328 – Black. - 400gm
- 610355 – White. - 400gm
- 800030 – Aluminum. - 300gm

Pack size – 20 cartridges per carton

TYPICAL PROPERTIES	
Durometer hardness Shore A	32
Approximate Tooling / Working Time, Minutes	10
Tack Free Time, Minutes	15-20
Ultimate Tensile Strength, MPa	1.2
Movement Capability, Percentage	±25%
Temperature Range, °C	- 50© to +180*©
VOC Rating – g/L	59
Flow, Sag or Slump	Nil

* (+180© short term only - use RTV range for higher temperatures).

CLEANING PREPARATION

All surfaces must be clean, dry, sound and free from dust, rust, oil, wax or any other contamination. Surface should be cleaned & dried prior to application.

Use ITLS-TWA silicone prep cleaner or IPA to clean non porous substrates, with 2 cloth process.

APPLICATION INSTRUCTIONS

If needed use masking tape for neat appearance and easy of clean up. Cut nozzle off from the end of the plastic cartridge then attach plastic nozzle, cut the tip off the nozzle at 45 degrees and desired size.

Using a hand held or air operated cartridge gun, extrude the sealant out into joint, (making sure sealant wets out onto substrates) tool off within 5-10 minutes. Remove tape before silicone starts to cure. (Subject to humidity in air) Sealant will cure at a rate of 3mm in the first 24 hours, then 1mm per day their after..

CLEAN UP

If need use ITLS-TWA silicone prep cleaner, IPA, or commercial solvent to clean of silicone, before sealant has cured. Check with solvent manufacture product is ok to use on substrate and any flammability concerns.

ESTIMATING

One Aftek® Industrial cartridge will give the following.

Approximate - volume in linear meters.

Joint in mm	Approx. Linear Meters
6mm x 6mm	8.1
12mm x 6mm	4.1
15mm x 8mm	2.5
20mm x 10mm	1.5

(Figures given can change due to wastage).

Suggested design for joint movement.

Width then depth is normally half eg: 20mm x 10mm.

Refer to ITLS-TWA for correct joint designs relating to any projects, or you may not be sure of.

PRECAUTIONS

- Do not use for structural glazing.
- Sealant may discolour copper and brass.
- Not recommended for joints exceeding $\pm 25\%$ movement.
- Not recommended for sealing of aquariums or fish tanks.
- Not recommended for sealing of swimming pools on some substrates, please check with ITLS-TWA first.
- Not recommended for continuous water immersion applications (subject to substrate).
- Not recommended for use with marble and similar highly porous stones.
- Not recommended for use in trafficable joints where abrasion and physical abuse are encountered.
- Product can't be painted, as paint will not adhere to sealant.
- Not recommended for use on polycarbonate plastic sheeting, suitability for use on other types of plastic should be tested prior to application.
- Don't uses on freshly painted surfaces (enamel or solvent containing types).
- Don't apply to materials that bleed plasticisers or solvents or release by-products that may inhibit its cure, affect adhesion or discolour the sealant (eg. bituminous based adhesives and coatings).
- Do not clean or treat the sealant with materials, solvents or cleaning agents that may affect or discolour the sealant, particularly during sealant cure
- Do not apply when substrate surface temperatures exceed $+40^{\circ}\text{C}$ or below $+5^{\circ}\text{C}$.
- Temperature range of -50°C to $+180^{\circ}\text{C}$ the 180°C max is for short term only 20-30 minutes, continues running at $+150^{\circ}\text{C}$.
- PVF2 or powder coat paint exhibits a highly variable wax content on the Surface, ensure thorough cleaning with ITLS-TWA silicone prep cleaner first before using product.
- Product should not be applied to surfaces in direct contact with food.
- Not recommended for direct contact on the reflective coatings on mirrors. (use Aftek® Xi860)
- Sealant cures by contact with humidity / moisture vapour in the air.
- Not recommended for use in closed or confined areas where sealant curing may be inhibited by lack of air or humidity.
- Don't use for or in medical or pharmaceutical use.

Always check with ITLS-TWA Technical department to confirm any questions relating to limitations / precautions before using product. ITLS-TWA always recommends substrate and product testing prior to using on any project.

STORAGE and SHELF LIFE.

Store sealant in original unopened containers / cartridges in a dry location, temperature should not exceed 25°C for prolonged periods.
Shelf life of product is 12 months from date of manufacturing.

HEALTH AND SAFETY

Safety Direction: Hazardous – product will release methylethylketoxime vapour on curing till fully cured. Avoid contact with skin and eyes. Avoid breathing vapour and spray mist. Wear overalls, safety shoes, impervious gloves and safety glasses. Use only in well-ventilated area.

FIRST AID: If poisoning occurs contact Doctor or Poisons information Centre (Phone Australia 131126: New Zealand 0800 764 766).

SEE THE MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.

TECHNICAL SUPPORT

ITLS-TWA manufactures and supplies a comprehensive range of high quality, high performance construction & industrial products. In addition, ITLS-TWA offers technical support and on-site advice to architects, engineers, trades people, contractors and end users.

Co-operative testing program is offered for major projects, including warranties.

Please contact your ITLS-TWA sales representative or ITLS-TWA Head Office or silicones@aftek.com.au for this service

ALLIED PRODUCTS

ITLS-TWA manufactures and supplies a broad range of products under the Aftek® brand, which are used in the construction industry, industrial and OEM manufacturing, including:

Grouts

Coatings

Admixtures

Adhesives

Sealants –Silicones / PU's / Acrylic's / Butyl

Floor Toppings

Floor Levelling Compounds

Concrete Repair

Concrete Curing

The information and any recommendations relating to the application and end-use of all ITLS products are provided in good faith based on ITLS's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by ITLS. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions. All users should always refer to the most recent and up to date issue of the Technical Data Sheet for the product concerned, which is available on request. It is recommended that products should always be properly stored, handled and applied under tested and recommended conditions.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.



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